



Ames Environmental Services Division



Ames Research Center RAP Update

NASA RAP Workshop March 20-22, 2007

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2006 Overview


- Green Purchasing Training Course
- Hg Thermometer Exchange – Sec. 503 Priority Chemical
- Bio-diesel incidents
- Compatible toner cartridge issues
- Motor Pool successes
- Voluntary groups – SSV, FEC, FNS




SATERN GP Training


**Green Purchasing**


Green Purchasing Menu




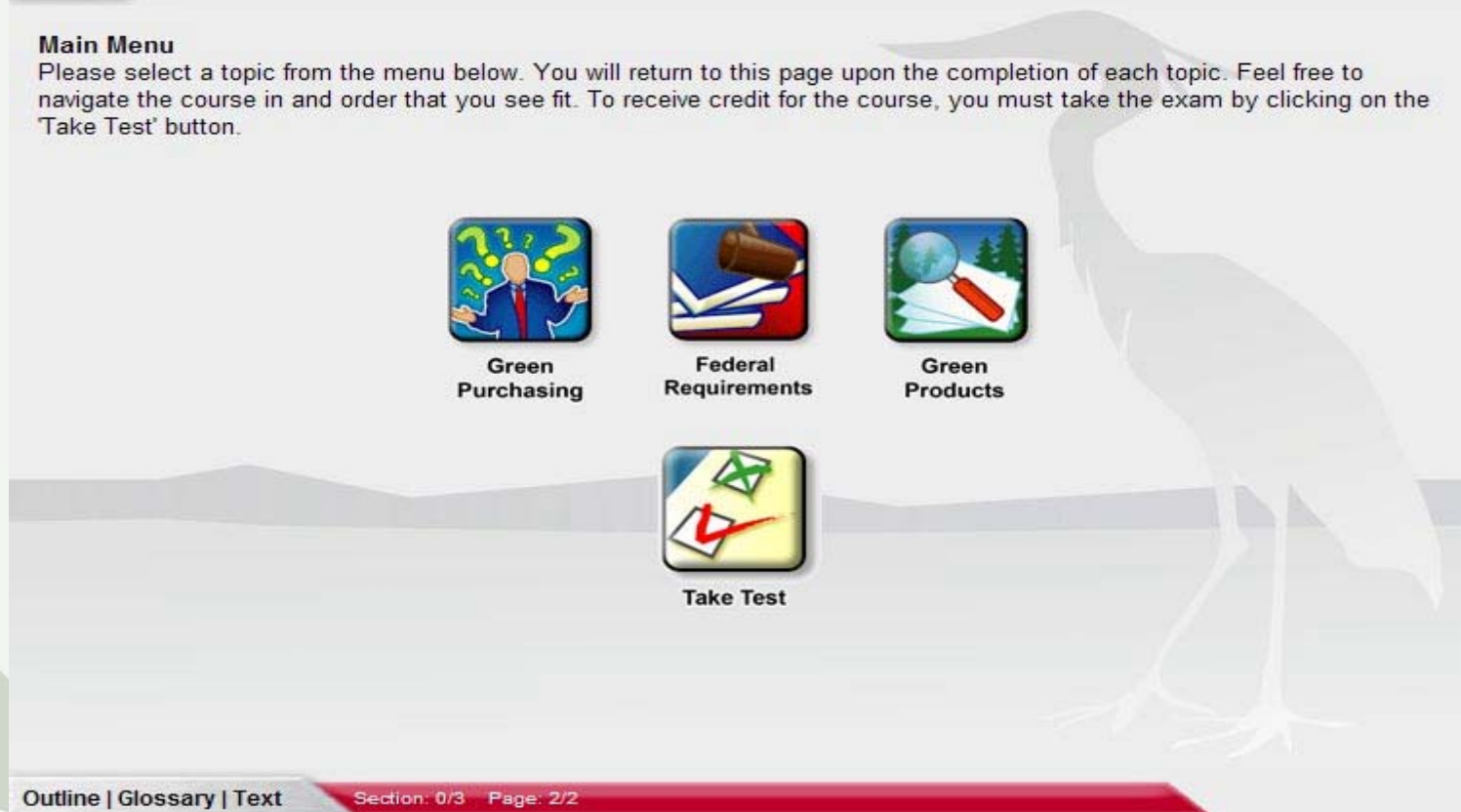
Main Menu
Please select a topic from the menu below. You will return to this page upon the completion of each topic. Feel free to navigate the course in and order that you see fit. To receive credit for the course, you must take the exam by clicking on the 'Take Test' button.


Green Purchasing


Federal Requirements


Green Products


Take Test

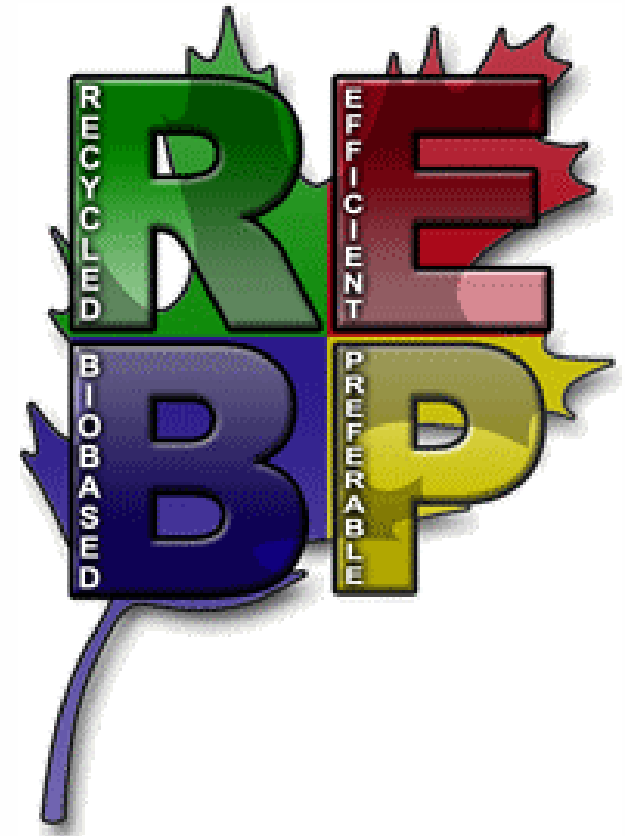


Outline | Glossary | Text

Section: 0/3 Page: 2/2

GP Explained

- 4 Product types
- CPG
- FEMP Standards
- Energy Star
- USDA biobased
- Waiver Form



Biobased Products Module



Green Purchasing

Green Products: Bio-Based Products

Bio-Based Products:

The 2002 Farm Bill requires the USDA to designate bio-based products for federal purchasing. The first list of products was published in March 2006. The key to buying bio-based is to look for vegetable-based products that are made from plant oils such as soy, corn, rapeseed and sunflower. Examples of products currently available include:

- Hydraulic Fluids
- Cleaning Products
- Penetrating Lubricants
- Degreasers
- Paint Removers
- Diesel Fuel Additives



Video Case Study:

USDA - Beltsville Agricultural Research Center Using Bio-based Products. To view the video, click on this image. You will be redirected to another page. Click the second link under 'Case Studies' on the bottom of the page.



For more information about biobased products, refer to the USDA's preferred procurement website by clicking on the logo to the left.



Hg Thermometer Exchange

- Surveyed researchers
- Replacement cost - \$10-\$57/device
- VWR envirosafe - citrus oil w/green dye
- 100 devices replaced: 1 to 1 exchange
- \$2100 cost of project
- Sec. 503 priority chemical - Helped w/50% reduction goal





B20 Incidents Facilities Trucks

- Tar in tank bottom (12 trucks)
- Fuel injectors clogged
- Tank removed and sludge cleaned out
- Cause: Low fuel turnover and old tanks
- Solution: Clean tank on low mileage trucks before using B20.
- Buses OK - high usage not a problem
- Trucks still using B20 - no problems after tanks cleaned.





B20 Incidents

N261 Backup Generator

- Fuel injector clog
- New system, in service for 1 year
- Gummy brown deposits
- Warranty only valid up to B5 blends
- Cause: Low fuel turnover, stored over 1 year
- Solution: B20 not used in backup generators, Diesel #2 only.





Remanufactured Toner Cartridge Issues

- 4 current users interviewed
- All reported toner leaks and bad chip
- No longer will use
- Cause: Quality varies by supplier. Color cartridges more problematic.
- Solution: Use only STMC certified manufacturers



Motor Pool Successes

- Smartwasher® (Ozzy Juice)
 - Eliminated service \$3,600/year
 - Eliminated disposal 2,500 lbs./year
 - Microbes digest oily waste
 - Filter replaced
 - Top-off Ozzy juice ~6 months
- BPL soy lubricant
 - Replaces WD-40





Voluntary Groups

- Sustainable Silicon Valley
www.sustainablesiliconvalley.org



- Federal Network for Sustainability
www.federalsustainability.org

- Federal Electronics Challenge
www.federalectronicchallenge.net





FEC and EO 13423

Each agency and its facilities shall choose either to become a partner in the FEC, or to implement an equivalent electronics stewardship program that addresses:

- purchase
- operation and maintenance
- end-of-life management (must follow EPA's Guidelines: Plug-In To eCycling)





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